

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/615,846	07/10/2003	Hirohisa Nakayama	116518	9984	
25944	7590 03/08/2005		EXAMINER		
OLIFF & BERRIDGE, PLC			SMOOT, STEPHEN W		
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
			2813		
			DATE MAILED: 03/08/2009	DATE MAILED: 03/08/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

Notice of Abandonment 10/815,845		Application No.	Applicant(s)			
Examiner Stephen W. Smoot 2813	M. d. v. of Abrandon mand	10/615,846	NAKAYAMA, HIROHISA			
The MAILING DATE of this communication appears on the cover sheef with the correspondence address— This application is abandoned in view of:	Notice of Abandonment					
This application is abandoned in view of: 1. Applicant's failure to timely file a proper reply to the Office letter mailed on 05 August 2004 (a) A reply was received on (with a Certificate of Meiling or Transmission dated), which is after the expiration of the period for reply (including a total extension of time of month(s)) which expired on (b) A proposed reply was received on, but it does not constitute a proper reply under 37 CFR 1.113 (a) to the final rejection. (A proper reply under 37 CFR 1.113 to a final rejection consists only of: (1) a timely filed damendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee), or (3) a timely filed Notice of Appeal (with appeal fee), or (3) a timely filed Notice of Appeal (with appeal fee), or (3) a timely filed Notice of Appeal (with appeal fee), or (3) a timely filed Notice of Appeal (with appeal fee), or (3) a timely filed Notice of Appeal (with appeal fee), or (3) a timely filed Notice of Appeal (with appeal fee), or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. (c) Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85). (a) The issue fee and publication fee, if applicable, was received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85). (b) The submitted fee of \$ is insufficient. A balance of \$ is due. The issue fee required by 37 CFR 1.18 is \$ The publication fee, if equired by 37 CFR 1.18 (d), is \$ (e) The issue fee and publication fee, if applicable, has not been received. (c) The issue fee and publication fee, if applicable, has not been received. (d) Proposed corrected drawings have		Stephen W. Smoot	2813			
1. ☑ Applicant's failure to timely file a proper reply to the Office letter mailed on <i>95 August 2004</i> (a) ☐ A reply was received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the period for reply (including a totale attension of time of month(s)) which expired on, which is after the expiration of the period for reply function for allowance; (a) to the final rejection consists only of. (1) a timely filed amendment which job places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal led); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.14). (c) ☐ A reply was received on but it does not constitute a proper reply, or a bona fide attempt at a proper reply, to the non-final rejection. See 37 CFR 1.85(a) and 1.111. (See explanation in box 7 below). (d) ☑ No reply has been received. 2. ☐ Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PToL.95). (a) ☐ The issue fee and publication fee, if applicable, was received on (with a Certificate of Mailing or Transmission dated), which is safer the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PToL.95). (b) ☐ The issue fee required by 37 CFR 1.18 is \$ for the issue fee and publication fee, if applicable, has not been received. 3. ☐ Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTo-37). (a) ☐ Proposed corrected drawings were received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the period for reply. (b) ☐ No corrected drawings have been received on (with a Certificate of Mailing or Transmission dated)	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
(a) A reply was received on (with a Certificate of Mailing or Transmission dated (noth(s)) which expired on	This application is abandoned in view of:					
(A proper reply under 37 CFR 1.112 to a final rejection consists only of. (1) a timely filed Amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.) (c) A reply was received on but it does not constitute a proper reply, or a bona fide attempt at a proper reply, to the non-final rejection. See 37 CFR 1.65(a) and 1.111. (See explanation in box 7 below). (d) No reply has been received. 2 Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85). (a) The issue fee and publication fee, if applicable, was received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85). (b) The issue fee required by 37 CFR 1.18 is \$ The publication fee, if required by 37 CFR 1.18(d), is \$ C) The issue fee required by 37 CFR 1.18 is \$ The publication fee, if required by 37 CFR 1.18(d), is \$ C) The issue fee and publication fee, if applicable, has not been received. 3 Applicants failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37). (a) Proposed corrected drawings were received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the period for reply. (b) No corrected drawings have been received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the period for reply. 4 The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants. 5 The	(a) ☐ A reply was received on (with a Certificate of N period for reply (including a total extension of time of	Mailing or Transmission dated month(s)) which expired on _	·			
application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.) (c) ☐ A reply was received on but it does not constitute a proper reply, or a bona fide attempt at a proper reply, to the non-final rejection. See 37 CFR 1.15(a) and 1.111. (See explanation in box 7 below). (d) ☒ No reply has been received. 2. ☐ Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85). (a) ☐ The issue fee and publication fee, if applicable, was received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85). (b) ☐ The submitted fee of \$ is insufficient. A balance of \$ is due. The issue fee required by 37 CFR 1.18 is \$ The publication fee, if required by 37 CFR 1.18(d), is \$ (c) ☐ The issue fee required by 37 CFR 1.18 is \$ The publication fee, if required by 37 CFR 1.18(d), is \$ (c) ☐ The issue fee and publication fee, if applicable, has not been received. 3. ☐ Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37). (a) ☐ Proposed corrected drawings were received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the period for reply. (b) ☐ No corrected drawings have been received. 4. ☐ The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants. 5. ☐ The letter of express abandonment which is signed by an attorney or agent of record, the assignee of the entire interest, or all of the applicants. 6. ☐ The decision by the Board of Patent Appeals						
final rejection. See 37 CFR 1.85(a) and 1.111. (See explanation in box 7 below). (d) ⋈ No reply has been received. 2. □ Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85). (a) □ The issue fee and publication fee, if applicable, was received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85). (b) □ The submitted fee of \$ is insufficient. A balance of \$ is due The issue fee required by 37 CFR 1.18 is \$ The publication fee, if required by 37 CFR 1.18(d), is \$ (c) □ The issue fee and publication fee, if applicable, has not been received. 3. □ Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37). (a) □ Proposed corrected drawings were received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the period for reply. (b) □ No corrected drawings have been received. 4. □ The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants. 5. □ The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application. 6. □ The decision by the Board of Patent Appeals and Interference rendered on and because the period for seeking count review of the decision has expired and there are no allowed claims. 7. ☒ The reason(s) below. Verified through phone conversation with Michael Britton on 02 March 2005 that no reply to the above Office letter has been filed by the applicant.	application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for					
2. Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85). (a) The issue fee and publication fee, if applicable, was received on (with a Certificate of Mailing or Transmission dated highly	(c) A reply was received on but it does not constitute a proper reply, or a bona fide attempt at a proper reply, to the non-final rejection. See 37 CFR 1.85(a) and 1.111. (See explanation in box 7 below).					
from the mailing date of the Notice of Allowance (PTOL-85). (a) The issue fee and publication fee, if applicable, was received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85). (b) The submitted fee of \$ is insufficient. A balance of \$ is due. The issue fee required by 37 CFR 1.18 is \$ The publication fee, if required by 37 CFR 1.18(d), is \$ (c) The issue fee and publication fee, if applicable, has not been received. 3. Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37). (a) Proposed corrected drawings were received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the period for reply. (b) No corrected drawings have been received. 4. The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants. 5. The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application. 6. The decision by the Board of Patent Appeals and Interference rendered on and because the period for seeking court review of the decision has expired and there are no allowed claims. 7. The reason(s) below. Verified through phone conversation with Michael Britton on 02 March 2005 that no reply to the above Office letter has been filed by the applicant. Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.	(d) ⊠ No reply has been received.					
	from the mailing date of the Notice of Allowance (PTOL-85).					
The issue fee required by 37 CFR 1.18 is \$ The publication fee, if required by 37 CFR 1.18(d), is \$ (c) ☐ The issue fee and publication fee, if applicable, has not been received. 3. ☐ Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37). (a) ☐ Proposed corrected drawings were received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the period for reply. (b) ☐ No corrected drawings have been received. 4. ☐ The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants. 5. ☐ The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application. 6. ☐ The decision by the Board of Patent Appeals and Interference rendered on and because the period for seeking court review of the decision has expired and there are no allowed claims. 7. ☑ The reason(s) below. Verified through phone conversation with Michael Britton on 02 March 2005 that no reply to the above Office letter has been filed by the applicant. Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term. U.S Patenta Trademak Office.), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of					
(c) ☐ The issue fee and publication fee, if applicable, has not been received. 3. ☐ Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37). (a) ☐ Proposed corrected drawings were received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the period for reply. (b) ☐ No corrected drawings have been received. 4. ☐ The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants. 5. ☐ The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application. 6. ☐ The decision by the Board of Patent Appeals and Interference rendered on and because the period for seeking court review of the decision has expired and there are no allowed claims. 7. ☒ The reason(s) below. Verified through phone conversation with Michael Britton on 02 March 2005 that no reply to the above Office letter has been filed by the applicant. ### Applicant's failure to timely filed to August 131. Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to and and	(b) ☐ The submitted fee of \$ is insufficient. A balanc	e of \$ is due.				
3. ☐ Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37). (a) ☐ Proposed corrected drawings were received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the period for reply. (b) ☐ No corrected drawings have been received. 4. ☐ The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants. 5. ☐ The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application. 6. ☐ The decision by the Board of Patent Appeals and Interference rendered on and because the period for seeking court review of the decision has expired and there are no allowed claims. 7. ☑ The reason(s) below: Verified through phone conversation with Michael Britton on 02 March 2005 that no reply to the above Office letter has been filed by the applicant. ### Applicant's failure to timely filed to Au 2813 Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to Au 2813.	The issue fee required by 37 CFR 1.18 is \$ The publication fee, if required by 37 CFR 1.18(d), is \$					
Allowability (PTC-37). (a) Proposed corrected drawings were received on (with a Certificate of Mailing or Transmission dated), which is after the expiration of the period for reply. (b) No corrected drawings have been received. 4. The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants. 5. The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application. 6. The decision by the Board of Patent Appeals and Interference rendered on and because the period for seeking court review of the decision has expired and there are no allowed claims. 7. The reason(s) below. Verified through phone conversation with Michael Britton on 02 March 2005 that no reply to the above Office letter has been filed by the applicant. Head of the section patent for the period for requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term. Let the representative of the entire interest, or all of the applicant. And the promptly filed to minimize any negative effects on patent term. Let the representative of the entire interest, or all of the above Office letter than the promptly filed to minimize any negative effects on patent term.	(c) ☐ The issue fee and publication fee, if applicable, has n	ot been received.	٠.			
after the expiration of the period for reply. (b) □ No corrected drawings have been received. 4. □ The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants. 5. □ The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application. 6. □ The decision by the Board of Patent Appeals and Interference rendered on and because the period for seeking court review of the decision has expired and there are no allowed claims. 7. ☑ The reason(s) below: Verified through phone conversation with Michael Britton on 02 March 2005 that no reply to the above Office letter has been filed by the applicant. ### Examiner Au 2813 Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to uninimize any negative effects on patent term. **U.S. Patent and Trademark Office**		uired by, and within the three-month	period set in, the Notice of			
 4. ☐ The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants. 5. ☐ The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application. 6. ☐ The decision by the Board of Patent Appeals and Interference rendered on and because the period for seeking court review of the decision has expired and there are no allowed claims. 7. ☒ The reason(s) below. Verified through phone conversation with Michael Britton on 02 March 2005 that no reply to the above Office letter has been filed by the applicant. Attent Examiner Au 2813 Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term. 	(a) ☐ Proposed corrected drawings were received on (with a Certificate of Mailing or Transmission dated), which is					
the applicants. 5. The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application. 6. The decision by the Board of Patent Appeals and Interference rendered on and because the period for seeking court review of the decision has expired and there are no allowed claims. 7. The reason(s) below: Verified through phone conversation with Michael Britton on 02 March 2005 that no reply to the above Office letter has been filed by the applicant. **Applicant Examiner Au 2813** Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term. U.S. Patent and Trademark Office	(b) ☐ No corrected drawings have been received.					
1.34(a)) upon the filing of a continuing application. 6. ☐ The decision by the Board of Patent Appeals and Interference rendered on and because the period for seeking court review of the decision has expired and there are no allowed claims. 7. ☑ The reason(s) below: Verified through phone conversation with Michael Britton on 02 March 2005 that no reply to the above Office letter has been filed by the applicant. **Application** **Patent** and review under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term. U.S. Patent and Trademark Office **Patent and Trademark Office** **Patent and Trade		e attorney or agent of record, the ass	signee of the entire interest, or all of			
of the decision has expired and there are no allowed claims. 7. ☑ The reason(s) below: Verified through phone conversation with Michael Britton on 02 March 2005 that no reply to the above Office letter has been filed by the applicant. **Application of the decision has expired and there are no allowed claims.** Verified through phone conversation with Michael Britton on 02 March 2005 that no reply to the above Office letter has been filed by the applicant. **Application of the decision has expired and the reason of the reas	5. The letter of express abandonment which is signed by an 1.34(a)) upon the filing of a continuing application.	n attorney or agent (acting in a repres	sentative capacity under 37 CFR			
Verified through phone conversation with Michael Britton on 02 March 2005 that no reply to the above Office letter has been filed by the applicant. ### Applicant ### Detitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term. #### U.S. Patent and Trademark Office ###################################			se the period for seeking court review			
has been filed by the applicant. Stephen W. Smoot Patent Examiner Au 2813 Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term. U.S. Patent and Trademark Office	7. ⊠ The reason(s) below:					
has been filed by the applicant. Stephen W. Smoot Patent Examiner Au 2813 Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term. U.S. Patent and Trademark Office	Verified through phone conversation with Michael E	Britton on 02 March 2005 that no	reply to the above Office letter			
Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term. U.S. Patent and Trademark Office						
Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term. U.S. Patent and Trademark Office		Patent Exc	aminer/AU2813			
U.S. Patent and Trademark Office	Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to					
	U.S. Patent and Trademark Office	of Abandonment	Part of Paper No. 03072005			